

CLASSIFIED MESSAGE

MFG. 6-83

DATE

Approved For Release 2002/08/21 : CIA-RDP89B00980R000200170096-0
1835Z 19 NOV 63

S E C R E T

ROUTING

1	9
2	10
3	11
4	12
5	13
6	14
7	15
8	16

TO : DIRECTOR

FROM :

ACTION: OSA (1-15)

INFO :

TOR 1935Z 19 NOV 63

Info Act

Init.

ROUTINE

CHIEF
IE
QXCART
IDEALIST
SUPPLY
CITE

IN 51167

25X1

25X1

TO

INFO

SUPPLY

CITE

0741

SUBJECT: CHANGE PROPOSALS LAC-160 AND 161

1. BOTH PROPOSALS ARE APPROVED BY THE FOG SPO WITH THE FOLLOWING CONSIDERATIONS:

A. THE FLIGHT TEST EVALUATION OF THE COMPETING AUTOPILOT SYSTEM IS TO BE ACCOMPLISHED WITHOUT THE IMPROVED NAVIGATION CAPABILITY (LAC-160) INSTALLED. THIS IS IN ORDER TO AVOID POSSIBLE INFLUENCE OF NAVIGATION CONVENIENCE ON AUTOPILOT SUBJECTIVE EVALUATION.

B. A MINIMUM OF ONE AFSC AND ONE SAC PILOT WILL BE REQUIRED TO FLY THE TEST INSTALLATIONS FOR EVALUATIONS. SUGGEST THIS EFFORT BE DONE OUT AT EDWARDS.

C. THE NAVIGATION IMPROVEMENT SHOULD BE INSTALLED AFTER THE AUTOPILOT EVALUATION HAS BEEN COMPLETED AND FLOWN BY TWO SAC PILOTS ON SIMULATED MISSION PROFILES.

-END OF MSG-

S E C R E T

GROUP 1
Excluded from automatic
downgrading and
declassification

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LOCKHEED AIRCRAFT CORPORATION		ENGINEERING STUDY <input checked="" type="checkbox"/>		LAC -161	
		CHANGE PROPOSAL <input type="checkbox"/>			
DATE 5 NOVEMBER 1963		AFFECTS: WSPO <input checked="" type="checkbox"/>		PROJECT <input checked="" type="checkbox"/>	
NAME OF MAJOR COMPONENT		PART OR LOWEST SUBASSEMBLY		PART NO. & MODEL OR TYPE	
TITLE OF PROPOSAL : AUTOMATIC FLIGHT CONTROL SYSTEM AND FLIGHT REFERENCE SYSTEM - FLIGHT TEST EVALUATION					
NATURE OF PROPOSAL : SEE PAGE 2					
REASON FOR PROPOSAL : SEE PAGE 2					
ESTIMATED COST AND TIME INVOLVED :					
ADDITIONAL FUNDING REQUIRED :					
ESTIMATED COST FOR KITS OR PARTS : SEE PAGES 3 & 4					
ADDITIONAL FUNDING REQUIRED : NONE SP-1923					
ITEMS AFFECTED BY PROPOSAL :					
SAFETY <input checked="" type="checkbox"/>	MISSION EFFEC- TIVENESS <input checked="" type="checkbox"/>	PERFORM- ANCE <input checked="" type="checkbox"/>	OPERATING PROCEDURE <input checked="" type="checkbox"/>	INTER- CHANGE- ABILITY <input type="checkbox"/>	WEIGHT OR WEIGHT & BALANCE <input type="checkbox"/>
TOOLS & SUPPORT EQUIPMENT <input type="checkbox"/>	MAINTENANCE PROCEDURE <input type="checkbox"/>	SERVICE LIFE <input type="checkbox"/>	FLIGHT MANUAL <input type="checkbox"/>	MAINTENANCE MANUAL <input type="checkbox"/>	
EST. MAN/HRS. REQ'D. TO ACCOMPLISH CHANGE IN FIELD					
SOURCE OF PARTS FOR KIT LAC			AVAILABILITY _____ WEEKS AFTER APPROVAL SEE PAGES 3 & 4		
DISPOSITION OF SPARES AFFECTED NA					
INITIATED BY : CAPTOMER			APPROVED : WSPO 15 NOV 63 PROJ		

25X1

REASON FOR PROPOSAL:

To evaluate and compare performance and reliability of two combination automatic flight control (autopilot) and flight reference systems with improved system functions, improved control features, and improved pilot operation.

NATURE OF PROPOSAL:

Part A

Install, in breadboard form, a prototype LSI proposed AFCS and flight reference system.

The AFCS will be similar to one currently used in the Gyrodyne and Q2C Drone systems using proven electronics circuits and will utilize existing ships AFCS components where practical.

The flight reference system will be LSI 2 gyro platform type AF/A24G-1A.

An improved course indicator will be installed in place of the ID-250.

Part B

Upon completion of flight test of Part A, the LSI system will be removed and a prototype Minneapolis Honeywell AFC system will be installed in breadboard manner along with a Bendix 2 gyro platform flight reference system.

The AFCS (M-H) will adapt and modify an autopilot electronics system originally designed and packaged for the F-104J aircraft. It will include an air data computer which will be a sub-system designed and packaged for another program and modified to provide true air speed information to the new navigation system (see ECP LAC-160).

The flight reference system will be an A/A24G-5 including 2 gyro Bendix platform, AN/AJN-3A servo amplifier, AN/AJN-3 compass control panel, flux valve, and rate switch.

An improved course indicator will be installed in place of the ID-250.

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